

**Notice of Allowability**

Application No.

10/780,603

Examiner

Tuan T. Dinh

Applicant(s)

AIZAWA, OSAMU

Art Unit

2841

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an interview on 06/22/07.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>06/22/07</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|  | 9. <input type="checkbox"/> Other _____.   |

### DETAILED ACTION

Claims 5-6 are now hereby rejoining.

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. H. J. Staas (Reg. No. 22,010) on June 22, 2007.

The application has been amended as follows:

**For claim 1:**

1. **(CURRENTLY AMENDED)** A printed board unit, comprising:  
a mother board; and  
a first board unit and a second board unit that are vertically mounted onto the mother board and face each other,  
the first board unit including a vertically standing first daughter board and ~~an~~ **a set of** electronic parts first mounting boards s that horizontally protrude from the first daughter board,  
the second board unit including a vertically standing second daughter board and ~~an~~ **a set of** electronic parts second mounting boards that horizontally protrude from the second daughter board,

the set of electronic parts first mounting boardss of the first board unit and the set of electronic parts second mounting boardss of the second board unit facing each other, being located at different heights relative to the mother board, and overlapping each other when seen from the tops of the first and second daughter boards.

**For claim 2:**

2. (CURRENTLY AMENDED) A printed board unit, comprising:

a mother board; and

a first board unit and a second board unit that are vertically mounted onto the mother board and face each other,

the first board unit including a vertically standing first daughter board that has a first connectorss near the lower end thereof, and an respective electronic parts first mounting boardss connected to a lower region of the first daughter board with the first connectors and horizontally ~~protrudes~~ protruding from the first daughter board,

the second board unit including a vertically standing second daughter board that has a second connectorss near the upper end thereof, and an respective electronic parts second mounting boardss connected to an upper region of the second daughter board with the second connectors and horizontally ~~protrudes~~ protruding from the second daughter board,

the electronic parts first mounting boardss of the first board unit being located on a lower side thereof while the electronic parts second mounting boardss of the second board unit ~~is~~ are located on an upper side thereof,

the electronic parts first mounting boardss of the first board unit and the electronic parts second mounting boardss of the second boards unit facing each other and overlapping with each other when seen from the tops of the first and second daughter boards.

**For claim 5:**

5. (CURRENTLY AMENDED) A printed board unit, comprising:

a mother board; and

a first board unit and a second board unit that are vertically mounted onto the mother board and face each other,

the first board unit including a vertically standing first daughter board that has a first connectors<sub>s</sub>, and an respective electronic parts first mounting boards<sub>s</sub> that is connected to the first daughter boards with the first connectors<sub>s</sub> and horizontally protrudes protruding from the first daughter board,

the second board unit including a vertically standing second daughter board that is taller than the first daughter board of the first board unit and has a second connectors<sub>s</sub> near an upper end thereof, and an respective electronic parts second mounting boards<sub>s</sub> that is connected to an upper region of the second daughter board with the second connectors<sub>s</sub> and horizontally protrudes protruding from the second daughter board,

the electronic parts first mounting boards<sub>s</sub> of the first board unit being located on the a lower side thereof while and the electronic parts second mounting boards<sub>s</sub> of the second board unit being located on an upper side thereof, and

the electronic parts first mounting boards<sub>s</sub> of the first board unit and the electronic parts second mounting boards<sub>s</sub> of the second board unit facing each other and overlapping with each other when seen from the tops of the first and second daughter boards.

***Allowable Subject Matter***

Claims 1-7 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reichard Dean can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tuan Dinh  
June 22, 2007.



TUAN T. DINH  
PRIMARY EXAMINER